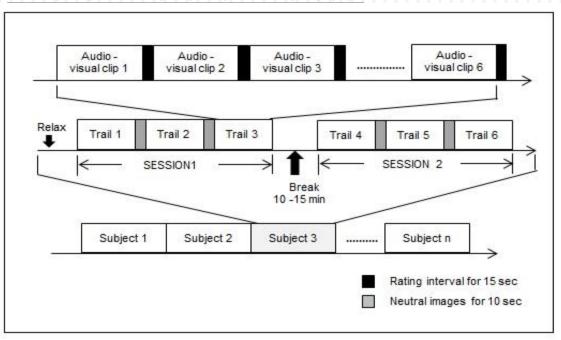
Development of Emotional EEG Database

Emotion Elicitation Protocol



Entity	Time duration
Emotional stimulus	36-45 sec
Trial	4-5 min
Session	25-30 min
Protocol	1.15 – 1.30 hours
Rating	15 sec
Break	10-15 sec

TABLE 3: Time duration details

Fig 5.	Emotion	Elicitation	Protocol
--------	----------------	--------------------	-----------------

Trial	Emotion Stimulus 1	Emotion Stimulus 2	Emotion Stimulus 3	Emotion stimulus 4	Emotion Stimulus 5	Emotion Stimulus 6
1,4	Anger	Happiness	Disgust	Sadness	Fear	Surprise
2,5	Disgust	Anger	Sadness	Surprise	Fear	Happiness
3,6	Sadness	Surprise	Happiness	Fear	Anger	Disgust

Note: Rest sate EEG (eyes-opened) data was obtained when the participants relaxed before the start of the experiment.

TABLE 4: Order of video clips in data acquisition protocol

Development of Emotional EEG Database

Data Acquisition device and electrode placement

	Emotiv headset
	EIIIOUV HEAUSEL
Number of channels	14 plus (CMS/DRL references, P3/P4 locations)
Connectivity	Proprietary Wireless, 2.4 Hz band
Electrodes	Ag/Agcl
Channel names	AF3, F7, F3, FC5, T7, P7, O1, O2, P8, T8, FC6, F4, F8, AF4
Sampling rate	128 SPS (samples per second)

TABLE 5: Data Acquisition device details



Fig 7. Emotiv EPOC headset on a participant showing right, back and left views

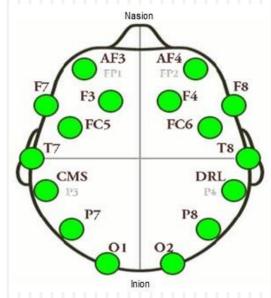


Fig 6. Electrode placement

Development of Emotional EEG Database

Participants

- Twenty Idiopathic Parkinson's disease (10 men and 10 women)and 20 healthy age- (ages of 45-65 years), education-, and gender-matched controls (9 men and 11 women) participated in this study.
- The PD patients recruited from the clinic Neurology out patient service of the Hospital University Kebangsaan Malaysia (HUKM) medical center in Kuala Lumpur, Malaysia.
- The HC participants were recruited through the hospitals medical unit community and/or from patients relatives.
- All PD patients were optimally medicated (ON state) during the testing session.
- All participants were right-handed as determined by self-report and confirmed by Edinburg Handedness Inventory (Score: 1-10)